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| APPLICATION NO.                                                               | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------------------------------------------------------------|-------------|----------------------|---------------------|------------------|
| 10/539,028                                                                    | 06/15/2005  | Michael Perkuhn      | DE 020292           | 2557             |
| 24737 7590 06/08/2010 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 |             |                      | EXAMINER            |                  |
|                                                                               |             |                      | CATTUNGAL, SANJAY   |                  |
| BRIARCLIFF MANOR, NY 10510                                                    |             |                      | ART UNIT            | PAPER NUMBER     |
|                                                                               |             |                      | 3768                |                  |
|                                                                               |             |                      |                     |                  |
|                                                                               |             |                      | MAIL DATE           | DELIVERY MODE    |
|                                                                               |             |                      | 06/08/2010          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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| Office Action Commence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10/539,028                                                                                                                                                                 | PERKUHN ET AL.                                                         |  |  |  |  |  |
| Office Action Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Examiner                                                                                                                                                                   | Art Unit                                                               |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SANJAY CATTUNGAL                                                                                                                                                           | 3768                                                                   |  |  |  |  |  |
| The MAILING DATE of this communication ap<br>Period for Reply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | opears on the cover sheet with the c                                                                                                                                       | orrespondence address                                                  |  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING [In the state of the | DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tim d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE | lely filed the mailing date of this communication.  (35 U.S.C. § 133). |  |  |  |  |  |
| Status                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                            |                                                                        |  |  |  |  |  |
| 1) Responsive to communication(s) filed on 29 /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | April 2010                                                                                                                                                                 |                                                                        |  |  |  |  |  |
| · · · · · · · · · · · · · · · · · · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | · · · · · · · · · · · · · · · · · · ·                                                                                                                                      |                                                                        |  |  |  |  |  |
| <u></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | / <del></del>                                                                                                                                                              |                                                                        |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.                                                                          |                                                                        |  |  |  |  |  |
| Disposition of Claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                            |                                                                        |  |  |  |  |  |
| 4)⊠ Claim(s) <u>21-40</u> is/are pending in the application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | •                                                                                                                                                                          |                                                                        |  |  |  |  |  |
| ,—                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4a) Of the above claim(s) is/are withdrawn from consideration.                                                                                                             |                                                                        |  |  |  |  |  |
| 5) Claim(s) is/are allowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | _                                                                                                                                                                          |                                                                        |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6) Claim(s) <u>21-40</u> is/are rejected.                                                                                                                                  |                                                                        |  |  |  |  |  |
| • • • • • • • • • • • • • • • • • • • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7) Claim(s) is/are objected to.                                                                                                                                            |                                                                        |  |  |  |  |  |
| 8) Claim(s) are subject to restriction and/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8) Claim(s) are subject to restriction and/or election requirement.                                                                                                        |                                                                        |  |  |  |  |  |
| Application Papers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                            |                                                                        |  |  |  |  |  |
| 9)☐ The specification is objected to by the Examiner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                            |                                                                        |  |  |  |  |  |
| 10)⊠ The drawing(s) filed on <u>15 June 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                            |                                                                        |  |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                            |                                                                        |  |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                            |                                                                        |  |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                            |                                                                        |  |  |  |  |  |
| Priority under 35 U.S.C. § 119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                            |                                                                        |  |  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                            |                                                                        |  |  |  |  |  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:                                                                                                 | ite                                                                    |  |  |  |  |  |

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### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/29/10 has been entered.

### **Objections**

- 2. The amendment dated 02/11/10 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: Claim 21 recites "the resonant circuit does not surround a perimeter of the human subject" which has not been specified anywhere in the written disclosure (specification) and hence is not supported by the specification and considered new matter.
- 3. Applicant is required to cancel the new matter in the reply to this Office Action.
- 4. Claim 22 is objected to because of the following informalities: Claim 22 recites front side of *a clothes*. Appropriate correction is required.

Claim Rejections - 35 USC § 112

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5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claim 21 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim language "does not surround a perimeter of the human subject" has not been specified anywhere in the written disclosure (specification) and hence is not supported by the specification and considered new matter.

## Claim Rejections - 35 USC § 101

7. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 8. "A claim directed to or including within its scope a human being will not be considered to be patentable subject matter under 35 U.S.C. 101. The grant of a limited, but exclusive property right in a human being is prohibited by the Constitution." 1077 OG 24 (1987), reprinted in 1146 TMOG 24 (1993).
- 9. **Claim 24** is rejected under 35 U.S.C. 101 because **line 2** recites "affixed to the human subject". The human body is positively recited in the claim. As such applicant is advised to amend the claims in a way such that the human body is not being claimed.

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Examiner suggests amending claims to read "adapted/configured to be affixed to the human subject".

### Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 11. Claims 21, 27-30, 35, and 40, are rejected under 35 U.S.C. 102(e) as being anticipated by U. S. Patent No. 6,374,667 to Eriksen et al.
- 12. Regarding Claims 21 and 35, Eriksen teaches a system and method that monitors physiological states, comprising: a power supply (fig. 6 element 117 is a signal generator which is a power supply); a resonant circuit (fig. 6 element 101) that induces an oscillating magnetic field in response to receiving energy from the power supply to a volume of interest of a human subject in the magnetic field where the resonant circuit does not surround a perimeter of the human subject (fig. 6 element 101 can be broadly viewed as not surrounding the feet and head of the subjection 110) and provides a signal characteristic of a power loss (every coil is capable of producing a signal characteristic of a power loss since a magnitude zero signal would be a signal characteristic of a power loss); and a detector that detects the signal (fig. 6 element 133 and 127 are amplifier and rectifier/detector for detecting the signals from the volume),

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wherein the signal is used to monitor a physiological state of the human subject (col. 6 lines 50-65 teaches measuring breathing, which is a physiological state).

- 13. Regarding **claim 27**, Eriksen teaches using the signal to monitor blood flow (fig. 13 teaches change in blood volume over time in the chest cavity, which can be used to calculate the blood flow in the chest cavity).
- 14. Regarding **claim 28**, Eriksen teaches using the signal to monitor edema (col. 5 lines 12-14).
- 15. Regarding **claims 29 and 40**, Eriksen teaches that the volume is a human heart, and the resonant circuit is placed chest of the human proximate to the heart (col. 6 lines 37-40 teaches monitoring for heart failure).
- 16. Regarding **claim 30**, Eriksen teaches using the signal for calculating respiration rate of the subject (col. 6 lines 60-64 calculating quantitative amount of breathing, which is respiration rate and fig. 9 element 107).

# Claim Rejections - 35 USC § 103

17. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

18. Claims 22, 23, 25, 26, 31, 34, 36, 37, and 39, are rejected under 35 U.S.C. 103(a) as being unpatentable over U. S. Patent No. 6,374,667 to Eriksen et al. in view of U. S. Patent No. 6,359,449 to Reining et al.

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19. Regarding **Claims 22**, **31**, **and 36**, Eriksen teaches all of the above claimed limitations but does not expressly teach that the resonant circuit resides within a subportion of a front side of the clothes worn by the subject.

- 20. Reining teaches a Vest coil, where in the resonant circuit is within in the front portion of clothes (vest) worn by the subject (Fig. 1 elements 14, 16 and 22 as such the coils are in the front portion of the clothes, and are interwoven with fabric/threads,).
- 21. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Eriksen with a setup to place the coils in clothes as taught by Reining since such a setup would me more comfortable for the subject as the coils wont be in direct contact with the subject, as such would cause less irritation.
- 22. Regarding **claims 23 and 37**, Reining teaches a coil having conductors, wherein the resonant circuit is integrated into an insulating fabric carrier and the conductors are interwoven with threads of the insulating fabric carrier (Fig. 1 elements 14, 16 and 22 as such the coils are in the front portion of the clothes, and are interwoven with fabric/threads, elements 14 and 16 are conductors).
- 23. Regarding **claims 25**, **26** and **39**, Reining teaches a second resonant circuit that induces a magnetic field in a reference volume of the subject and that provides a second signal characteristic a state of the reference volume and comparing the signals (col. 3 lines 28-34 teaches 2 coils and comparing the signals, where in one signal is a reference volume signal).

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24. Regarding **Claim 34**, Reining teaches generating an alarm (col. 3 lines 28-34 teaches 2 coils and comparing the signals, where in one signal is a reference volume signal and generate an alarm if it detects distress).

- 25. Claims 24 and 38, are rejected under 35 U.S.C. 103(a) as being unpatentable over U. S. Patent No. 6,374,667 to Eriksen et al. in view of U. S. Patent No. 6,186,941 to Blackwell.
- 26. Regarding **Claims 24 and 38**, Eriksen teaches all of the above claimed limitations but does not expressly teach that the resonant circuit is integrated into a bandage affixed to the human subject.
- 27. Blackwell teaches that resonant circuit is integrated into a bandage affixed to the human subject (col. 6 lines 49-51 teaches attaching coil on a subject using elastic bandages, as such the coil is integrated onto a bandage).
- 28. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Eriksen with a setup to use bandages to attach coil as taught by Blackwell, since such a setup would make it easy to place/remove the coils from the subject.
- 29. Claims 32 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over U. S. Patent No. 6,374,667 to Eriksen et al. in view of U. S. Patent No. 5,760,688 to Kasai.

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30. Regarding Claims 32 and 33, Eriksen teaches all of the above claimed limitations but does not expressly teach that the resonant circuit is integrated into a furniture/bed sheet.

- 31. Kasai teaches that the fabric carrier is part of a furniture (Fig. 5) but does not expressly teach that the insulating fabric carrier is a bed sheet.
- 32. It would have been obvious to one of ordinary skill in the art at the time of invention to modify Eriksen with a setup such that the coil is in a furniture as taught by Kasai or bed sheet, since such a setup would result in the system being more flexible and usable in many different situations, moreover where you place the coil is merely a design choice, since the coil needs to be near the subject, and whether the coil is on the subject or the furniture as long as the region of interest is within the coil's magnetic field it would be able to generate a signal, and detect the physiological state.

#### Response to Arguments

33. Applicant's arguments with respect to claims 21-40 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

34. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANJAY CATTUNGAL whose telephone number is (571)272-1306. The examiner can normally be reached on Monday-Friday 9-5.

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35. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

36. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SANJAY CATTUNGAL/ Examiner, Art Unit 3768